wirelessly received synchronization information to a predetermined synchronization level and forming receivability information indicative of the level of the wirelessly received synchronization information exceeding the predetermined synchronization level;

given an initial synchronization controlled by communication system;

placing all base stations into a reception condition;

wirelessly transmitting synchronization information that is stored in one base station of the base stations in response to start information communicated from the communication system to said one base station;

forming, after a reception of the wirelessly transmitted synchronization information with at least a predetermined level in one of the neighboring base stations to said one base station, receivability information in the one of the neighboring base stations and transmitting the receivability information to the communication system via trunk lines, and initializing, after reception of receivability information in the communication system, the one of the neighboring base stations by communicating control information via the trunk lines to synchronize to the wirelessly received synchronization information and to transmit synchronization information stored therein, and, given a reception of at least two receivability information from at least two base stations in the communication system, interrogating the two base stations with respect to magnitude of reception levels of the wirelessly communicated synchronization information using level-measuring information communicated via trunk lines and using level result information, and initiating that base station of the two base stations that has the highest reception level of the wirelessly received synchronization information to synchronize to the wirelessly received synchronization information, being initiated by the communication system by communicating control information via the trunk lines;

repeating after a reception of receivability information from further base stations, both the synchronization to the respective wirelessly received synchronization information and the wireless transmission of synchronization information until all base stations are synchronized to respective neighboring base station;

wherein that base station of the at least one of the neighboring base stations is initiated that has a highest reception level of the wirelessly received synchronization information to synchronize to the wirelessly received synchronization information, being initiated by the communication system using terrestrial communication of control information.

12. The method according to claim **11**, wherein the method further comprises the step of implementing resynchronization of a respective base station during operation in a sequence determined in the initial wireless synchronization, utilizing existing master-slave relationships of the neighboring base stations to the respective base station.

13. The method according to claim **12**, wherein resynchronization of the respective base station is one of temporarily implemented, regularly implemented or constantly implemented.

14. The method according to claim **11**, wherein a plurality of communication systems have base stations and wherein the wireless synchronization of base stations is implemented across the communication systems.

15. The method according to claim **11**, wherein the method further comprises the step of providing a transmission unit and line termination units in each of the base stations, the transmission units and line termination units being formed by message switching units that are coupled via a respective trunk line to a plurality of lower-ranking units representing individual transmission channels, each of the transmission units and line termination units having a reception unit that evaluates signals supplied thereto and that edits said signals for further processing, and each of the transmission units and line termination units having a respective switching unit that precedes the reception unit and is coupled to the trunk line, said respective switching unit through-connecting one of the trunk lines dependent on a control signal, and each of the transmission units and line termination units having a watchdog unit coupled to the trunk lines that detects an occurrence of transmission signals of the lower-ranking units on a respective trunk line and outputs corresponding control signals, and each of the transmission units and line termination units having a selection unit coupled to the watchdog unit, to the switch unit and to the trunk line, said selection unit selecting one of the trunk lines according to predetermined criteria dependent on the control signals from the watchdog unit and generating corresponding setting signals for the switching unit and for the lower-ranking units.

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